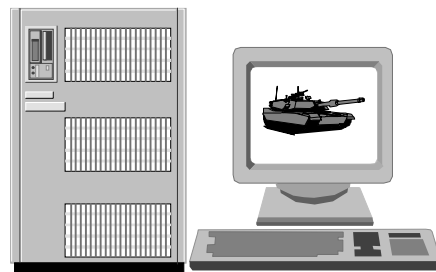
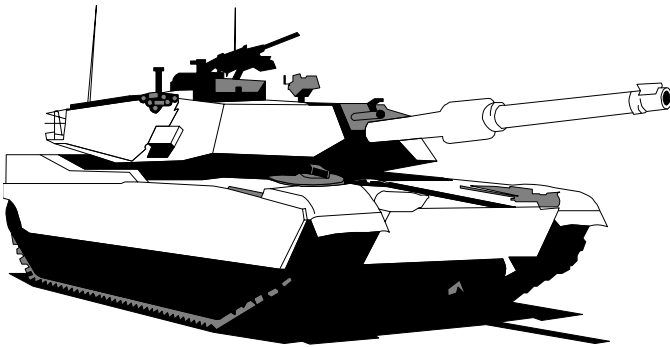




## **Automated Configuration Management System (ACMS) Task Force Plan of Action**



ACMS will provide the right  
product data when needed

**Prepared by  
US Army Industrial Engineering Activity  
14 February 1997**

## **Subject: Plan for Achieving Army FAA Recommendation concerning Automation of Configuration Management**

### **FAA Recommendation:**

*Set up Task Force Led by IEA to INVESTIGATE POTENTIAL AUTOMATED SYSTEMS that exist currently to include JCALs Pilot Programs which will provide a total integrated Configuration Management Suite of Tools for all MSCs.*

- *Criteria, time frame & Potential Savings established by Task Force.*
- *Task Force to provide Best Choice within negotiated time frame with CG AMC.*

### **Definition:**

Configuration Management (CM). A management process for establishing and maintaining consistency of a product's performance, functional, and physical attributes with its requirements, design and operational information throughout its life. As applied to digital documents, it is the application of configuration management principles to digital documents, their representations, and data files; and the correlation of digital documents to each other and to the products to which they apply. (MIL-STD-2549 DRAFT)

### **Task Force Objectives:**

- Reach Army consensus for Army Configuration Management functionality that begins with Technical Data / Configuration Management System - Enhanced (TD/CMS-E) functionality and expands it to meet the requirements of MIL-STD-2549.
- Develop a test methodology that objectively evaluates the ability of a potential solution to meet the Army's needs.
- Minimize development costs and time by considering the use of COTS or existing Government software to satisfy Army needs.
- Recommend an acquisition strategy that will lead to a solution that has growth potential to meet Acquisition Reform Initiatives and evolving US and International configuration management standards.
- Recommend an acquisition strategy that will lead to a solution that will work within the current and projected Army technical data infrastructure.
- Maximize the use of on-going initiatives (e.g. - Testing of CMstat, JEDMICS Program Redirection, DoD MIL STD 2549 prove out, CECOM Intelligent Product Data Business Process Improvement, LAISO Integrated Data Environment, JCALS Pilot Programs).

### **Task Force Products:**

- Mission Need Statement - The mission need statement will validate the need for ACMS. It will be based on a consensus determination by the AMC Engineering Data Management Systems (EDMS) Function Coordinating Group (FCG) and AMCRDA (the Business Process Manager for Engineering Data). It will describe current deficiencies, explain why additional automation is required, and define the boundary

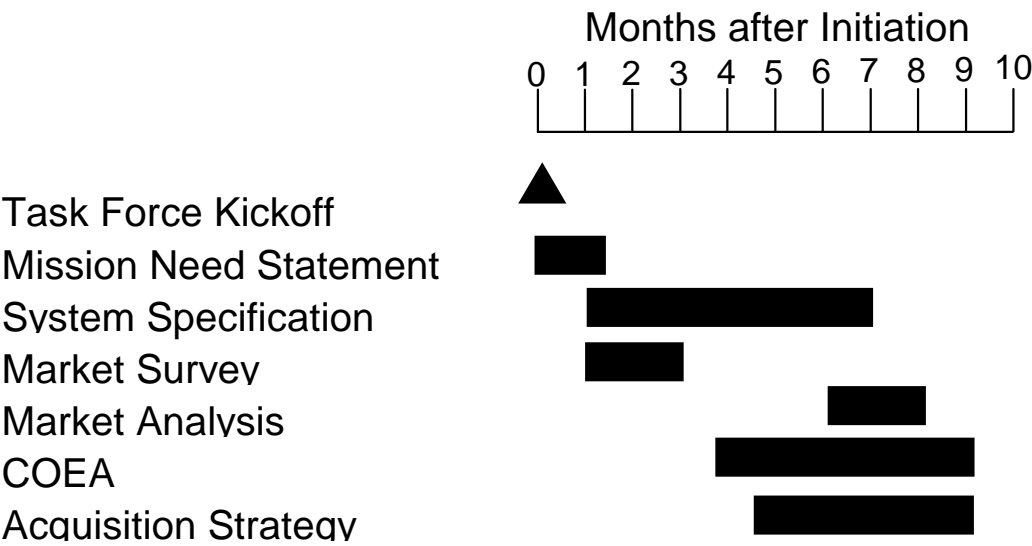
lines for the system (what it will cover versus what will be left to other existing systems). (See Attachment 1 for MNS outline)

- System Specification - Based on the results of an AMC-wide functional requirements analysis, the system specification will contain all system-level functional requirements for ACMS. It will also contain interface requirements between itself and all other automated technical data systems that it must work together with to create a seamless data management environment. Finally, it will also contain product verification criteria for determining product compliance with performance requirements. (See Attachment 2 for System Specification outline)
- Market Survey - The market survey will identify and list all non-developmental software (commercial and Government owned) that are available and appear to meet the general goals of ACMS.
- Market Analysis - The market analysis will compare the available software discovered during the market survey against the system specification performance requirements to discover which software (or combination of software) meets the requirements.
- Cost and Operational Effectiveness Analysis (COEA) - This analysis will compare the candidate software identified during the market analysis and alternative acquisition strategies for trade-offs between performance and cost. It will show various options ranked against MNS objectives
- Acquisition Strategy (AS) - Based on the results of the market analysis and COEA, the acquisition strategy will identify one or more software tools which meet or come closest to meeting the ACMS requirements. It will describe a strategy for testing those alternatives and downselecting to the “best value” system based on cost and performance considerations. A plan for ACMS system acquisition, fielding, attainment of operation capability, and ongoing maintenance will be presented along with associated costs and schedules. (See Attachment 3 for AS outline)

### **Task Force Membership:**

The task force will be made up of the principle members of the Engineering Data Management Systems Functional Coordinating Group. Since the task force members have other jobs that they must perform, the task force will need support from an engineering support contractor(s) to effectively perform this task. Appropriate support can be obtained through existing contract instruments. The cost of this support is estimated at \_\_\_\_\_. The task force will be led by IEA and will report to DCSRDA. Task Force meetings will be held monthly, either in person or via VTC. In process reviews will be held at the completion of the MNS, System Specification, and the Acquisition Strategy and COEA.

Task Force Time Frame



**MISSION NEED STATEMENT  
FOR  
AUTOMATED CONFIGURATION MANAGEMENT SYSTEM**

*Defense Planning Guidance Element.*

*Mission and Threat Analyses.*

*Nonmateriel Alternatives.*

*Potential Materiel Alternatives.*

*Constraints.*

*Joint Potential Designator.*

# **SYSTEM SPECIFICATION FOR AUTOMATED CONFIGURATION MANAGEMENT SYSTEM**

## **SECTION 1 - SCOPE.**

**Identification.**

**Entity type description.**

**System overview.**

## **SECTION 2. APPLICABLE DOCUMENTS.**

**Government documents.**

**Non-Government documents.**

**Order of precedence.**

## **SECTION 3 - REQUIREMENTS.**

**Functional and performance requirements.**

**Interface requirements.**

**Precedence and criticality of requirements.**

## **SECTION 4 - VERIFICATION.**

**Methods of verification.**

**Classes of verification.**

**Inspections.**

## **SECTION 5 - PACKAGING.**

## **SECTION 6 - NOTES.**

**Intended use.**

**Government-furnished property.**

**International standardization agreements.**

# **Acquisition Strategy for Automation Configuration Management System**

## **Requirement**

- Summary description**

- Identification of authoritative source documents**

- Status of requirement definition**

## **Program Structure**

- Summary Diagram**

- Acquisition Phases**

## **Risk Assessment**

### **Approach to Managing Program Cost and Performance**

- Establishing cost objectives**

- Managing Tradeoffs between Cost and Performance**

## **Program Management**

- General Philosophy and Approach**

- Responsibilities**

- Resources**

- Internal Controls**

- Tailoring and Streamlining Plans**

## **Support Concept and Strategy for Implementing It**

### **Business and Contracting Strategy**

- Industry Involvement in the Program to Date**

- Competition**

- Contracting Strategy**

## **Other Important Considerations**